EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	348	protocol with spoofing	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/09/18 06:48
L2	10938834	@ad<"20000724"	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/09/18 06:49
L3	99	1 and 2	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/09/18 06:49
L4	13955	hughes.as.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/09/18 06:49
L5	85	3 not 4	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/09/18 07:01
L6	10577	compression with multiple	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/09/18 07:01
L7	4701	2 and 6	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/09/18 07:01
L8	3	1 and 7	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/09/18 07:01
L9	3	"protocol spoofing".clm.	US-PGPUB	OR	ON	2006/09/18 07:02
L10	24450	compression.clm.	US-PGPUB	OR	ON	2006/09/18 07:02
L11	101	spoofing.clm.	US-PGPUB	OR	ON	2006/09/18 07:02
L12	1	10 and 11	US-PGPUB	OR	ON	2006/09/18 07:02

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L4	13955	hughes.as.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/09/18 06:49
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L11	101	spoofing.clm.	US-PGPUB	OR	ON	2006/09/18 07:02
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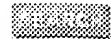
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1 **Multilink PPP**   ▪
George E. Conant
September 1999 **Linux Journal**
Publisher: Specialized Systems Consultants, Inc.
Full text available: 🖳 html(21.14 KB)   Additional Information: full citation, abstract, index terms

    One Big Virtual WAN Pipe: MLPPP gives network managers the power to deliver WAN
    bandwidth on demand using an array of services

2 **The client's side of the World-Wide Web**   ▪
◆ Hal Berghel
January 1996 **Communications of the ACM**, Volume 39 Issue 1
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◆ Rolf Oppliger
May 1997 **Communications of the ACM**, Volume 40 Issue 5
Publisher: ACM Press
Full text available: 🖳 pdf(339.15 KB)   Additional Information: full citation, references, citings, index terms, review

4 **Fast address lookups using controlled prefix expansion**   ▪
◆ V. Srinivasan, G. Varghese
February 1999 **ACM Transactions on Computer Systems (TOCS)**, Volume 17 Issue 1
Publisher: ACM Press
Full text available: 🖳 pdf(258.60 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

    Internet (IP) address lookup is a major bottleneck in high-performance routers. IP
    address lookup is challenging because it requires a longest matching prefix lookup. It is
    compounded by increasing routing table sizes, increased traffic, higher-speed links, and
    the migration to 128-bit IPv6 addresses. We describe how IP lookups and updates can be
    made faster using a set of of transformation techniques. Our main technique, controlled
    prefix expansion, transf ...

    Keywords: Internet address lookup, binary search on levels, controlled prefix expansion,

expanded tries, longest-prefix match, multibit tries, router preformance

5 A case for caching file objects inside internetworks

Peter B. Danzig, Richard S. Hall, Michael F. Schwartz
October 1993 **ACM SIGCOMM Computer Communication Review , Conference proceedings on Communications architectures, protocols and applications SIGCOMM '93**, Volume 23 Issue 4
Publisher: ACM Press

Full text available: pdf(1.02 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

This paper presents evidence that several, judiciously placed file caches could reduce the volume of FTP traffic by 42%, and hence the volume of all NSFNET backbone traffic by 21%. In addition, if FTP client and server software automatically compressed data, this savings could increase to 27%. We believe that a hierarchical architecture of whole file caches, modeled after the existing name server's caching architecture, could become a valuable part of any internet.We derived these conclusions by ...

6 Performance and reliability analysis of relevance filtering for scalable distributed interactive simulation

Mostafa A. Bassiouni, Ming-Hsing Chiu, Margaret Loper, Michael Garnsey, Jim Williams
July 1997 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 7 Issue 3
Publisher: ACM Press

Full text available: pdf(499.11 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Achieving the real-time linkage among multiple, geographically-distant, local area networks that support distributed interactive simulation (DIS) requires tremendous bandwidth and communication resources. Today, meeting the bandwidth and communication requirements of DIS is one of the major challenges facing the design and implementation of large scale DIS training exercises. In this article, we discuss the DIS scalability problem, briefly overview the major bandwidth reduction techniques c ...

Keywords: bandwidth reduction, distributed interactive simulation, real-time protocols, scalable algorithms

7 Migration Issues and Strategies for Token Ring

Bengt Beyer-Ebbesen, Mark Cowtan, Sharam Hakimi, Robert D. Love
July 1997 **International Journal of Network Management**, Volume 7 Issue 4
Publisher: John Wiley & Sons, Inc.

Full text available: pdf(472.60 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>

This article considers the problems caused by ever increasing traffic on Token Ring LANs. It shows how the new IEEE 802.5 standard for DTR addresses this problem, outlining scenarios and providing a migration strategy for evolving networks, using this new standard. © 1997 John Wiley & Sons, Ltd.

8 Receiver-driven layered multicast

Steven McCanne, Van Jacobson, Martin Vetterli
August 1996 **ACM SIGCOMM Computer Communication Review , Conference proceedings on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '96**, Volume 26 Issue 4
Publisher: ACM Press

Full text available: pdf(211.11 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

State of the art, real-time, rate-adaptive, multimedia applications adjust their transmission rate to match the available network capacity. Unfortunately, this source-

based rate-adaptation performs poorly in a heterogeneous multicast environment because there is no single target rate --- the conflicting bandwidth requirements of all receivers cannot be simultaneously satisfied with one transmission rate. If the burden of rate-adaption is moved from the source to the receivers, heterogeneity is a ...

9 Improving and managing multimedia performance over TCP–IP nets
Nathan J. Muller
December 1998 **International Journal of Network Management**, Volume 8 Issue 6
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(338.34 KB)   Additional Information: full citation, abstract, index terms

The TCP–IP-based Internet and, consequently corporate Intranets, were not designed for multimedia traffic. This article discusses the several ways of improving multimedia performance, finding that data compression techniques are no longer the most important factor. © 1998 John Wiley & Sons, Ltd.

10 Observing TCP dynamics in real networks
Jeffrey C. Mogul
October 1992 **ACM SIGCOMM Computer Communication Review , Conference proceedings on Communications architectures & protocols SIGCOMM '92**, Volume 22 Issue 4
Publisher: ACM Press
Full text available: pdf(1.39 MB)   Additional Information: full citation, abstract, references, citings, index terms

The behavior of the TCP protocol in simple situations is well-understood, but when multiple connections share a set of network resources the protocol can exhibit surprising phenomena. Earlier studies have identified several such phenomena, and have analyzed them using simulation or observation of contrived situations. This paper shows how, by analyzing traces of a busy segment of the Internet, it is possible to observe these pheonomena in "real life" and measure both their frequ ...

11 A wireless local area network employing distributed radio bridges
Victor C. M. Leung, Andrew W. Y. Au
June 1996 **Wireless Networks**, Volume 2 Issue 2
Publisher: Kluwer Academic Publishers
Full text available: pdf(1.16 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper presents a novel distributed wireless local area network (WLAN) architecture, where each wireless terminal (WT) accesses a backbone local area network (LAN) segment via multiple radio bridges (RB's). We introduce a self-learning routing algorithm for the RB's, which automatically adapts to changes in terminal locations, and prevents multiple copies of each data frame from being forwarded over the backbone LAN segment. The distributed WLAN architecture eases the management of netw ...

12 IP lookups using multiway and multicolumn search
Butler Lampson, Venkatachary Srinivasan, George Varghese
June 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 3
Publisher: IEEE Press
Full text available: pdf(173.06 KB)   Additional Information: full citation, references, citings, index terms, review

13 A hybrid handover protocol for local area wireless ATM networks
Chai-Keong Toh
December 1996 **Mobile Networks and Applications**, Volume 1 Issue 3
Publisher: Kluwer Academic Publishers
Additional Information: full citation, abstract, references, citings, index

· ≛   Full text available: pdf(960.44 KB)   terms

While handovers of voice calls in a wide area mobile environment are well understood, handovers of multi-media traffic in a local area mobile environment is still in its early stage of investigation. Unlike the public wireless networks, handovers for multi-media Wireless LANs (WLANs) have special requirements. In this paper, the problems and challenges faced in a multi-media WLAN environment are outlined and a multi-tier wireless cell clustering architecture is introduced. Design issues for ...

14 VARIATIONS: a digital music library system at Indiana University

Jon W. Dunn, Constance A. Mayer
August 1999 **Proceedings of the fourth ACM conference on Digital libraries**
Publisher: ACM Press
Full text available: pdf(122.41 KB)   Additional Information: full citation, references, citings, index terms

Keywords: digital audio, digital libraries, music libraries

15 A study on the number of memory ports in multiple instruction issue machines

Soo-Mook Moon, Kemal Ebcioğlu
December 1993 **Proceedings of the 26th annual international symposium on Microarchitecture**
Publisher: IEEE Computer Society Press
Full text available: pdf(1.28 MB)   Additional Information: full citation, references, citings

Keywords: ILP, memory disambiguation, memory ports, speculative loads, static scheduling

16 Dictionary-based order-preserving string compression

Gennady Antoshenkov
February 1997 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 6 Issue 1
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(203.08 KB)   Additional Information: full citation, abstract, index terms

As no database exists without indexes, no index implementation exists without order-preserving key compression, in particular, without prefix and tail compression. However, despite the great potentials of making indexes smaller and faster, application of general compression methods to ordered data sets has advanced very little. This paper demonstrates that the fast dictionary-based methods can be applied to order-preserving compression almost with the same freedom as in the general case. The pro ...

Keywords: Indexing, Order-preserving key compression

17 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
Publisher: IBM Press
Full text available: pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex

and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

18 Oracle media server: providing consumer based interactive access to multimedia data
Andrew Laursen, Jeffrey Olkin, Mark Porter
May 1994 **ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference on Management of data SIGMOD '94**, Volume 23 Issue 2
Publisher: ACM Press
Full text available: pdf(1.05 MB)   Additional Information: full citation, abstract, citings, index terms

Currently, most data accessed on large servers is structured data stored in traditional databases. Networks are LAN based and clients range from simple terminals to powerful workstations. The user is corporate and the application developer is an MIS professional.With the introduction of broadband communications to the home and better than 100-to-1 compression techniques, a new form of network-based computing is emerging. Structured data is still important, but the bulk of data b ...

19 An application level video gateway
Elan Amir, Steven McCanne, Hui Zhang
January 1995 **Proceedings of the third ACM international conference on Multimedia**
Publisher: ACM Press
Full text available: htm(54.34 KB)   Additional Information: full citation, references, citings, index terms

Keywords: conferencing protocols, digital video, efficient transcoding, image and video compression and processing, multicasting, networking and communication

20 Multipoint audio and video control for packet-based multimedia conferencing
F. Gong
October 1994 **Proceedings of the second ACM international conference on Multimedia**
Publisher: ACM Press
Full text available: pdf(979.60 KB)   Additional Information: full citation, abstract, references, citings, index terms

With the advent of broadband integrated services data network (B-ISDN) technologies such as Asynchronous Transfer Mode (ATM) networks, packet-based multimedia (e.g., live audio and video, animation, and text) conferencing is becoming a viable means for achieving virtual proximity, which enables us to overcome the physical separation in space and time and to interact more effectively in our science and engineering endeavors. To bring about the reality of virtual proximity, many technical iss ...

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06842614	4717521	150	03/21/1986	THERMAL GATE FOR PLASTIC MOLDING APPARATUS AND METHOD OF USING IT	BORDER, JOHN
07627826	Not Issued	161	12/14/1990	METHOD OF BONDING FIRST AND SECOND LAMINATES OF COMPOSITE MATERIAL UTILIZING A THIRD LAMINATE OF COMPOSITE MATERIAL	BORDER, JOHN
07655544	5113049	150	02/14/1991	FLEXIBLE INDUCTION HEATING COIL	BORDER, JOHN
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09863157	Not Issued	41	05/23/2001	Caching address information in a communications system	BORDER, JOHN
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10352992	Not Issued	30	01/28/2003	Method and system for communicating over a segmented virtual private network (VPN)	BORDER, JOHN
10353183	Not Issued	41	01/28/2003	Method and system for integrating performance enhancing functions in a virtual private network (VPN)	BORDER, JOHN
10353245	Not Issued	30	01/28/2003	Method and system for utilizing virtual private network (VPN) connections in a performance enhanced network	BORDER, JOHN

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